

Claims

1. A valve, in particular for a high-pressure pump of a fuel injection system for an internal combustion engine, having a valve member (35), which cooperates with a valve seat (44) formed in a housing part (10) in order to control a connection (32), the valve seat (44) having an at least approximately conical seat face (45), which is located at a transition of the connection (32) from a portion (32a) of small diameter to a portion (32b) of large diameter, characterized in that the seat face (45), on its side oriented toward the portion (32b) of large diameter, is adjoined by at least one face (52; 152) which is more markedly inclined toward the longitudinal axis (33) of the connection (32) than the seat face (45); and that the seat face (45), on its side oriented toward the portion (32a) of small diameter, is adjoined by at least one face (54; 154) which is less markedly inclined toward the longitudinal axis (33) of the connection (32) than the seat face (45).
2. The valve in accordance with claim 1, characterized in that the face (52), adjoining the seat face (45) toward the portion (32b) of the connection (32) having the large diameter, is adjoined by at least one further face (53), inclined more markedly toward the longitudinal axis (33) of the connection (32).
3. The valve in accordance with claim 1 or 2, characterized in that the face (54) adjoining the seat face (45) toward the portion (32a) of the connection (32) having the

small diameter is adjoined by at least one further face (55), inclined less markedly toward the longitudinal axis (33) of the connection (32).

4. The valve in accordance with claim 1, characterized in that the faces (152; 154) adjoining the seat face (45) are embodied as curved convexly toward the longitudinal axis (33) of the connection (32).

5. The valve in accordance with one of the foregoing claims, characterized in that the seat face (45) is machined from the side of the portion (32b) of the connection (32) having the large diameter, in particular by means of grinding and/or honing and/or metal-cutting.

6. The valve in accordance with one of the foregoing claims, characterized in that the housing part (10) is hardened, at least in the region of the seat face (45).

7. A high-pressure pump, in particular for a fuel injection system of an internal combustion engine, having a pump housing (10), in which at least one pump element (18) is disposed that has a pump piston (20), which is driven in a reciprocating motion by a drive shaft (12) and defines a pump work chamber (24) that can be made to communicate with an inlet (26) via an inlet valve (28) and with an outlet (32) via an outlet valve (34), characterized in that the inlet valve (28) and/or the outlet valve (34) is embodied in accordance with one of the foregoing claims.